

**Listing of the Claims:**

This listing of claims reflects the current status of all claims in the application:

1. (PREVIOUSLY PRESENTED): A negative pressure therapy device, comprising:
  - a screen means for placement within a wound bed;
  - a sealing means adhered over said screen means and wound bed;
  - a vacuum source fluidically communicating with said screen means; and
  - a fluid compositional sensing device interposed between said screen means and said vacuum source;wherein the fluid compositional sensing device senses compositional characteristics of unfiltered wound fluid from the wound bed.
2. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 1 wherein said fluid compositional sensing device comprises a gas chromatograph.
3. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 2 wherein said gas chromatograph further comprises a photo diode operable in optical proximity to fluids being drawn from the wound site towards said vacuum source.
4. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 1 wherein said fluid compositional sensing device is comprised of a sensor array.
5. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 1 further comprising a collection canister interposed between said screen means and said fluid compositional sensing device.

6. (PREVIOUSLY PRESENTED): A negative pressure therapy device, comprising:
- a screen means for placement within a wound bed;
  - a sealing means adhered over said screen means and wound bed;
  - a vacuum source fluidically communicating with said screen means;
  - a collection canister interposed between said screen means and said vacuum source; and
  - a fluid compositional sensing device for detecting infection;
- wherein the fluid compositional sensing device senses compositional characteristics of unfiltered wound fluid from the wound bed, said compositional characteristics indicative of said infection within the wound.
7. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 6 wherein said fluid compositional sensing device is embedded within said screen means.
8. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 6 wherein said fluid compositional sensing device is disposed on said sealing means, such that said fluid compositional sensing device is in contact with said screen means.
9. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 6 wherein said fluid compositional sensing device is disposed within said canister.
10. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 6 further comprising a flexible conduit for communicating between said screen means and said vacuum source.

11. (NEW): A negative pressure therapy device, comprising:
- a foam pad for placement within a wound site;
  - a drape positioned over said foam pad and wound site;
  - a vacuum source fluidically communicating with said foam pad; and
  - a fluid compositional sensing device interposed between said foam pad and said vacuum source;
- wherein the fluid compositional sensing device senses compositional characteristics of unfiltered wound fluid from the wound site.
12. (NEW): The negative pressure therapy device of claim 11 wherein said fluid compositional sensing device comprises a gas chromatograph.
13. (NEW): The negative pressure therapy device of claim 12 wherein said gas chromatograph further comprises a photo diode operable in optical proximity to fluids being drawn from the wound site towards said vacuum source.
14. (NEW): The negative pressure therapy device of claim 11 wherein said fluid compositional sensing device is comprised of a sensor array.
15. (NEW): The negative pressure therapy device of claim 11 wherein said fluid compositional sensing device is embedded within said foam pad.
16. (NEW): The negative pressure therapy device of claim 11 wherein said fluid compositional sensing device is disposed on said drape, such that said fluid compositional sensing device is in contact with said foam pad.
17. (NEW): The negative pressure therapy device of claim 11 further comprising a collection canister interposed between said foam pad and said fluid compositional sensing device.

18. (NEW): The negative pressure therapy device of claim 11 further comprising a collection canister interposed between said foam pad and said vacuum source

19. (NEW): The negative pressure therapy device of claim 11 wherein the fluid compositional sensing device detects a source of infection.

20. (NEW): The negative pressure therapy device of claim 19, wherein the source of infection is at least one of a bacterium or an antigen.